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Vol. 30

MONDAY, DECEMBER 11, 1961

No. 51

NKOA Publishes New Double Knit Fabric Manual

Publication of another volume in the NKOA series of technical knitting books was announced this week by Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association.

The new book is called Double Knit Fabric Manual and is compilation for the most part of articles on the subject which originally appeared in the KNIT-TED OUTERWEAR TIMES. HOWever, considerable new material has been added. Edited by Charles Reichman, editor of KNITTED OUTERWEAR TIMES, the book has chapters by J. B. Lancashire, senior lecturer, School of Textiles, Leicester College of Technology, England; Ralph Innes, assistant lecturer in knitting, textiles department, Derby and District College of Technology, England; and Dan Singer, an industrial consultant. Several chapters are also written by Mr. Reichman.

In the preface of the volume Mr. Korzenik points out:

"The potentiality for variety in knitted outerwear is so great that of all the knitting fields, it is traditionally most subject to style changes. New ideas keep ying for attention, and the successful ones quickly reach a peak of popularity, decline, and then are eclipsed by others on the rise.

"The vogue of double knit fabrics, however, is unusual. It has not only caught the public fancy in a striking way, but now, after three years, far from showing any signs of losing its appeal, it is stronger than ever. The same trend is no less true

of Europe than of the United States.

"A number of reasons readily suggest themselves in explanation of the apparently enduring place which this fabric has so speedily earned. In chief, what is commonly called 'double knit' is not a particular type of fabric but a whole genre of fabrics. The name applies to a variety of knitted rib constructions which present the same appearance on both sides because they are knitted with two sets of needles, one cylinder and

(Continued on Page 28)

Korzenik Urges End Of State Taxes On Out-Of-State Firms Seeking Orders

WASHINGTON, D. C.—Speaking for the apparel industry of the nation, Sidney S. Korzenik, executive director and counsel of the National Knitted Outerwear Association, urged upon Congress that it make permanent the present moratorium on state income taxes levied on out-of-state corporations whose activities in the taxing state are limited to

He delivered his statement on Thursday, December 7, to the Sub-Committee on State Taxation of Interstate Commerce of the Committee on the Judiciary of the House of Representatives.

the mere solicitation of orders.

He spoke in behalf of 30 trade associations in the apparel industry which joined in the recommendations he advocated.

The same issue was previously raised before Congress in 1959 shortly after the Supreme Court held that out-of-state corporations whose activities in the taxing state were confined to the mere solicitation of orders which are then forwarded to the home office for acceptance were, nevertheless, subject to state income taxes in the states into which they shipped their goods. Mr. Korzenik at that time urged that the consequences of this decision would not only be a burden upon interstate commerce but would be particularly onerous for small business of the kind which predominate in the knitted outerwear industry and in the apparel industry

Following hearings before the Senate Committee on Small Business and the Senate Committee on Finance, legislation was enacted in Public Law 86-272 prohibiting collection of state income taxes on income of out-of-state corporations which did no more than solicit orders in the taxing state. This statute also provided for a further study to be made and new proposals for legislation to be reported by July 1, 1962. The present series of hearings are preparatory to the required report.

generally.

(Continued on Page 28)

NKOA Board At Semi-Annual Parley Weighs White House Import Program

Concern over the aggravated threat of foreign imports to the wool sweater and sportswear side of the industry, particularly in view of the slow pace of the Administration's textile program in addressing itself to wool products, was the keynote of a meeting of the board of directors held at the Waldorf-Astoria Hotel in New York City on Thursday, No-

vember 30.

The meeting was devoted almost entirely to a review of the cotton and wool knitwear import program. James F. Nields, Association president, chaired the meeting.

Mr. Nields and Sidney S. Korzenik, executive director and counsel of the Association, reported to the board on the provisional Geneva Agreement on Cotton Textiles, the current negotiations of a long-range cotton agreement and the wool phase of the program which was initiated when the Wool Textile Advisory Committee to the administration was convened in November for the first time. Mr. Nields is a member of the Cotton Textile Advisory Committee and Mr. Korzenik of the Wool Textile Advisory Committee.

While the industry continues to view hopefully the President's

assurance that import relief would be applied not only to cotton textiles but to products of other fibers, the contest looming up in the next session of Congress over the President's impending request for authority to slash tariff rates across the board, left prospects uncertain.

While the Association will urge the development of a wool program that will alleviate the pressure of foreign competition in wool sweater and sportswear, the possibility of aggravated competition from abroad is a consideration which, said Mr. Nields, must be reckoned with. He stressed the importance of sharpening styling ideas, of developing techniques for improving turnover and delivery time thereby gaining a time advantage over the foreign producer, raising quality, increasing productivity and uniting the industry.

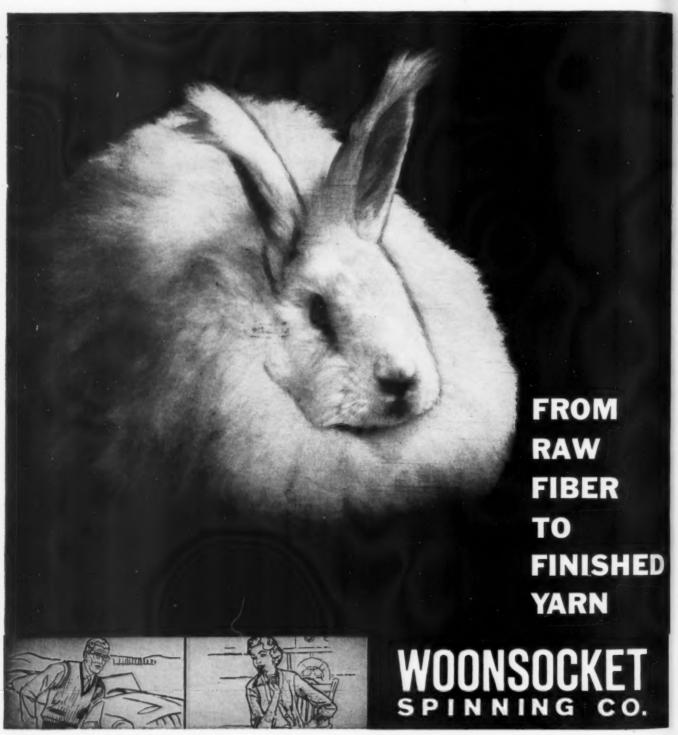
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Synthetic Fiber Developments

Courtelle To Enter U. S. Knitwear Field

By CHARLES REICHMAN, Editor

LEADING knitted dress cutters and at least one major knitted yardgoods producer have been enlisted to tee off the commercial introduction of Courtelle, Courtaulds acrylic fiber, in this country. Initially, the attempt to penetrate the highly competitive U. S. acrylic fiber field with the British fiber will be based on double

knit fabrics imported from the United Kingdom and made available to selected knit garment cutters.

This move will then be followed up with the manufacture in this country of a line of double knit fabrics comparable to those available in the British Isles

Although eventually there probably will be a number of knitters in the Courtelle double knit manufacturing program, for the time being only one domestic tubular yardgoods mill has been signed up-Wm. Heller. Inc. The knit fabric company, it is understood, has recently purchased a bank of Kirkland DJK-36 machines to knit up solid color double knit fabrics of Courtelle. The DJK-36 is manufactured in England by A. Kirkland & Co., Ltd., a wholly-owned subsidiary of Courtaulds, Ltd.

Although Courtelle, as such, has never been promoted in this country, unlabeled Court-aulds acrylic fiber has found its way into the knitwear field at prices well below those at which American-manufactured acrylic fibers have been selling. Yarns produced from the imported Courtaulds staple have been sold as unbranded 100 per cent acrylic fiber yarns by one or two cotton systems spinners.

Doubt was expressed in market circles that the new Courtelle U. S. marketing program will result in a reduction of imports into this country of unlabeled Courtaulds acrylic fiber. According to one report, a number of major suppliers of cotton spun acrylic fiber yarns to the knitting trade have recently concluded arrangements with Courtaulds for added supplies of the British acrylic fiber.

"The only time we can expect imports of unbranded Courtaulds acrylic fiber to cease," said one spinner, "is when the company sets up its own fiber producing facilities in this country." No plans for such

an installation are currently in the works, although it is understood that if the Courtaulds fabric marketing program proves successful, there is a distinct possibility that a plant building program will be undertaken.

Selection of double knits as the end-use category on which to base Courtelle's invasion of the U. S. market, undoubtedly stems from the fact that so far this has been the fiber's most successful area in England. Currently, according to reports obtained from abroad, Courtelle is the basis of most of the double knit synthetic fiber fabrics knitted in British mills, outselling both Orlon and Acrilan by a wide margin.

In sweaters, however, Courtelle in Britain is running a poor third to both the DuPont and Chemstrand acrylic fibers. Orlon is reputed to occupy first place position in sweaters while Acrilan ranks second.

First introduced in Britain in 1957, Courtelle is being turned out at an annual rate of roughly 22,000,000 pounds from two sites—the parent plant in Coventry which has a 2,000,000-pound capacity, and two larger plants in Grimsby, each with a rated capacity of 10,000,000 pounds of fiber. By 1962, output in all plants is expected to soar to a 32,000,000-pound level.

Courtelle is produced in staple and tow form in 1.25, 2.0, 3.0, 4.5, 6.0, 9.0 and 15.0 deniers, and in staple lengths of from 1 17/16ths to six inches. The staple fiber, like Orlon and Acrilan, is extruded in high shrinkage and regular shrinkage form. High-bulk yarns thus can be produced via the cotton system from a mixture of high and conventional shrinkage staple or from tow on the Turbo Stapler.

Double knit fabrics of 100 per cent Courtelle are produced from worsted system yarns spun from 4.5 denier standard matt tow. Conversion of the tow into sliver prior to spinning into yarn is done on the Pacific Converter. Sizes of the Courtelle yarns for double knits range from 1/28 to 1/40 w.c. Mostly, British knitters use 1/32 to 1/36 w.c. yarns.

More than half of the yarns are tow-dyed and the balance slub or package-dyed. The package dyeing route is resorted to only for jacquard-patterned double knit fabrics. Moreover, package dyeing is recommended only for light and medium shades if destined for solid color goods.

Knitting is said to proceed normally as for wool in other acrylic fiber yarns with the conventional precautions taken as to yarn tension and machine cleanliness.

The finishing procedure for Courtelle double knit fabrics differs slightly from that employed for acrylic fiber double knits in this country. The process starts with scouring at which time a finish is supplied to the fabric to avoid production of needle holes in sewing. The goods are then centrifuged after which they are stenter dried. The next operation is shearing, designed to remove from the fabric small protruding ends of fiber which if abraded may cause pilling. After shearing comes decating.

No calendaring or steaming is done except that prior to creeling the yarn cones on the knitting machine. They are vacuumsteamed to reduce twist liveli-

There are no figures available on the quantity of Courtelle currently being channeled into the double knit fabric field in Britain. However, one authority estimated that double knits account for the most substantial proportion of the annual output of the

Other important end-use areas for Courtelle in England include high-pile knitted fabric; circular and full-fashioned sweaters, the former in bulky rib as well as fine gauge constructions; Raschel knit baby shawls; and a miscellaneous selection of other items. Some experimentation has been undertaken in England with the knitting of Courtelle staple on fine gauge warp knitting machinery other than Raschel units. Also, in both fabrics and garments, some work has been done in blending Courtelle.

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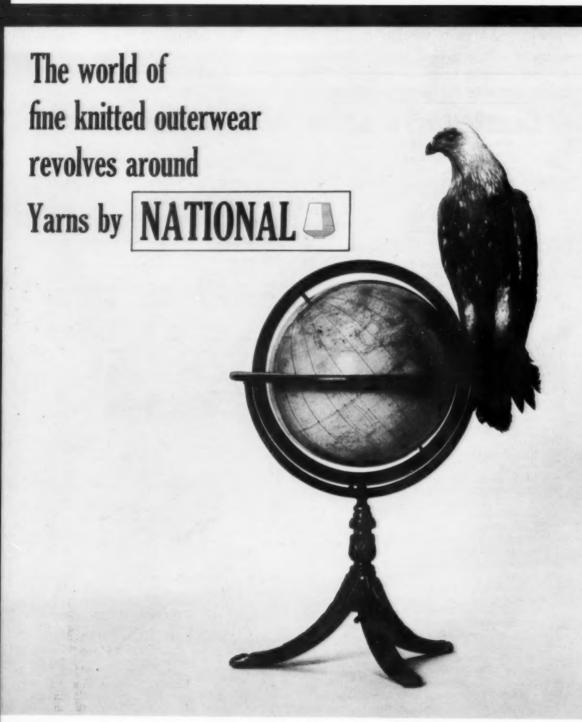
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Knitting Machine Developments

Hobourn F. N. F. Introduces New Superfine K Model

BURTON-ON-TRENT, England — Hobourn-F.N.F. Limited has introduced a warp knitting machine designed to bridge the gap between two-and three-bar warp knitting and multi-bar Raschel machines. It is the Superfine K-140. For two-bar cloth production a guising speed at 24 hours per day rating of 1,000 courses per

ruising speed at 24 hours preminute is guaranteed by the firm. With the machine conversion to four-bars, a crusing speed within the range of 900 to 1,000 c.p.m. is obtained, and at six-bars depending entirely upon the cloth construction 850 to 1,000 c.p.m. is reported as well within the machine's capacity.

The firm said the machine is easily serviced and maintained, that it produces or reproduces any fabrics. New fabrics may be readily incorporated in the basic machine design.

The machine will produce fabric confined up to now to weavers.

The needle for the machine has a number of advantages over other compound tubular needles.

The hook is five times as long as the original 28G V.E. Needle. The needle capacity is 12 times as great and has strength enough to withstand the considerably higher loop and yarn loads on multi-bar work. A greater strength tongue has better needle hook tip cover and register, and both are die cast in sections of precision quality allowing needle dange without re-plier or other isside adjusting. The tongue dosure on the needle hook has been arranged to give the maxinum opportunity for the underlaps to enter the needle throat as low down and early as the underlap occurs. The greater volof needle allows these laps to fall up the hook and well away from danger of tongue interference. The result has been a needle and tongue combination capable of accepting second qualty yarns, slubs, rubbish and split flaments, as well as slack feeds, without impending the performance of the machine.

The needle does not have the limiting weakness of the flexible beard needle or the latch interference and filament snagging of flat synthetic yarns, but it does have the strength of shank of the latch needle.

The gauges of the machine are

available at 32, 30, 28, 21, 18 and 14, with matching needles and tongues.

The guide sections are designed to give as much yarn movement clearance without loss of thread control, and are accessible for threading and shape.

The combination of motion of the needles and guides and their respective shapes allows a full warp knit capability on any cloth or any one of six bars without any adjustment of the guide depth or gating settings. The guide eye depth is no longer a critical element in setting the machine. Nor is the excessive length of beard or latch a limiting factor in the perfectly controlled entry of all six underlaps into any one FNF needle hook.

The machine is a true 2, 3, 4, 5 and 6 bar warp knitting machine, and is not a two-bar ground with lay in for the remainder.

The guide bars are carried on new slides which are identical and interchangeable. The bars may be removed from the slides for threading with the minimum of spanner work simply by uncoupling the push rod and cable at the pattern box end of the machine, and the open ended stirrup fork allows the bar to be slid out or re-entered easily. In addition the settings of the guide bars may be adjusted if required by a very simple neat and accessible pair of eccentrics which are calibrated and indexed so that any position may be recovered without difficulty. All bars have identical calibrations and are, as a result, related.

The position of the knitting elements in the machine in relation to the operative or threader is such that all six rows of thread guides are readily visible above the knitting point, and no guide lifting is required. The guide swing plate assembly is carried on individual pins and not a continuous large diameter guide shaft as on other machines, thus reducing still further the possibility of interference with the six warp sheets.

All the guide slides are provided with tailored lubricating points so that with correct quantity lubrication no transmission of excess grease to the fabric need occur.

The accessibility factor has been borne in mind with regard to all yarn paths over the tension bars and through the reeds from each warp beam so that while six warp sheets are in themselves a fence against accessibility, the optimum cleanness of line and working space has been achieved, and a satisfactory compromise between this factor and yarn path length has been

achieved without loss of control of the warps at high speeds.

The sinker blades are not just holding down points combined with a knock over grill. The essence of warp knitting technology lies in a true control of the loop and float formation of the mesh at all times throughout the knitting cycle. The sinker, designed to match the needle and tongue displacements and contours, and having a motion to alternately release and hold the fabric, requires a throat to needle motion giving uniform loop draw and clearance through the fabric and a hold on the mesh to avoid all slackness which would otherwise play hob with control as the nebs re-enter the mesh. The elliptical throat and elliptical neb fills the bill.

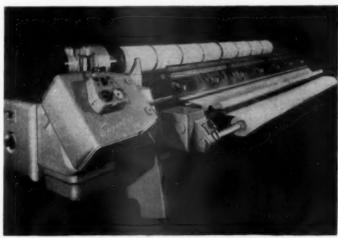
In addition the high breast of the neb gives uniform laying of the mesh against the back of the needle, and serves to hold the underlaps square and true as loops cross the path of the descending needle. The radiused nose of the elliptical neb is used most effectively to project the loops into the hook long before the tongue is exposed, and the curved under edge of the neb presses the cloth downwards prior to fabric release at knock over. The criterion for complete control of the yarn and fabric at all times is, in fact, achieved by placing the nose of the neb in relation to the needle so that they are tangent to them and one knits to the neb at all times.

The combination of all these elements lying as they do at an angle of 45 degrees makes for a precision stitch formation with maximum accessibility.

The motion of the knitting elements are obtained by compound mechanisms all of identical construction, but having different time phasing and magnitudes of displacement so that the resultant motions are rapid, smooth and versatile.

The eccentrics are all carried with these compound mechanisms in each individual mechanism box so that each is a miniature warp knitting machine. The complete unit may be replaced

(Continued on Page 7)



New Superfine K 168-inch, two-bar machine.

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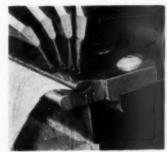
by a simple procedure for servicing. Combinations of these individual units along a straight bed allow progressive increases of machine width from 84 to 168 inches and greater.

Mounted on the mechanism hoxes are two complimentary index and calibration discs. The forward index allows the increase or reduction of knock over. while the one at the lower rear of the box allows throat and stroke length adjustment to be made. A spanner is provided for this purpose with the machine. The adjustment can be made out with the needles at the neb release point so that clear indication of the resultant setting is obtained. All these settings are arranged so that at any time other settings for previously manufactured cloths may be obtained rapidly. Normally the only major readjustments that will be required are for fabrics of toally different construction as between, say, locknit and marquisette or hexagonal nets, or for a gauge chance in the machine. Within limits the only adjustment or refinement of setting required is the throat setting which may be carried out in a matter of seconds.

The pattern mechanism is for six lanes of 24 course repeat chain, with two links per course. Extension arms may be attached to three separate faces of the box.

The end result would allow for a totally enclosed repeat chain of up to 180 courses. This arrangement is for all fabrics other than decorative nets. In the case of these latter fabrics the ground of two bars at the front is obtained from the patented sinker loop pattern wheel technique which allows continuous pillars to be knit easily. The remaining four lanes provide for decorative lay in and stitch construction.

In the case of a two, three, or four-bar fabric employing intermpted pleat effects, the intermpted pattern may be obtained from the two empty lanes of chain drum. In this way any
mamber of interruptions may be achieved from one and one upwards. The links employed are again designed to give maximum
smoothness of operation while
retaining high power transmission capability. The new links
are driven by a substantial con-



Four-bar full set 28-gauge Superfine; inside long hook needles 56-gauge.

nection pin through the joint of each link.

The roller follower mechanism is fully hardened and ground and lubricated to give smoothness of traverse, particularly with regard to large needle shogs and continuous traverse up to one inch or more.

The recoil mechanism is connected to the guide bars by ball cable and the pushers of lightweight construction are ball ended, easily accessible and provided with a micrometer adjustment where one revolution equals 1/28 of an inch. It automatically locks after gating adjustment.

Accessibility has once again been a governing feature for this adjustment. The pushers and cables are arranged in a one up one down alternate combination.

The take up unit is contained within the pattern box and gear changes may be carried out very simply to provide a most accurate and close control over the fabric take-up courses.

The take-up rollers are designed to give pinch roll non slip take-up and are supported against deflection by short 4th

rolls. The arrangement of rolls has allowed introduction of an extremely efficient selvedge spreader as an integral part of the take-up system.

All fabrics may now be batched in neat precise rolls with the minimum loss of knitted width.

The spreader belt has pins which are directed down into the warp knit fabric edge roll, thus being more effective than previous arrangements which pin from the face side of the cloth. The fabric disengages cleanly from the pins as they pass over the first take-up roll, which, because of its pinch control, prevents reduction in width as the selvedge spreader pins disengage from the fabric.

Batch diameter capacity is 13/14 inches for multi-bar machines and additional capacity up to 21 inches diameter rolls can be obtained by extension brackets for two-bar equipments.

The main control drive to the machine is variable. The basic drive is through a constant speed motor and variable speed belt. Speed adjustment is obtained by manual adjustment of the motor carriage under the left hand end of the machine. The adjustment is made from the front of the machine. The belt transmission passes through a free wheel device which allows safe override of the power drive on the slow or inching motor. A rubber flexible coupling is used to smooth out loading peaks on the variable speed belt which increases belt lift. The transmission divides at the input point into chain transmissions to the crankshaft, the pattern and take-up box, and the let off boxes.

An alternative main transmission may be fitted in the form of an A.C. commutator variable speed motor similar in type to those used on our well known range of Cascade warpers. When this motor is fitted to the rear of the pattern box the variable speed belt, free wheel, and slow run or inching motor are not required.

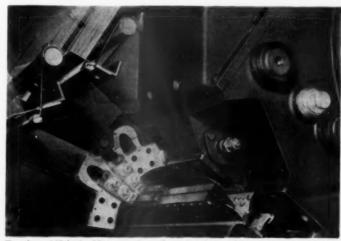
Control of the machine speed with this variable motor is achieved by pre-selection of operating speed within the range of knitting speeds. The knitting machine may be started from a full width twist rod carried up near the tension bars in an accessible position, and the machine speed at starting will always be at its lowest followed by an automatic climb to the pre-selected speed. On stopping, the machine will automatically motor back down to the lowest speed before switching off. With this technique very much reduced stopping lines are achieved as a result of the gentle transition from high to zero speed.

Attached to the main drive is the rotary oil pump which delivers pressure oil to all main bearings and points of lubrication. Nylon tubing is used in many positions to provide visual check of oil flow. The lubrication of the main crankshaft is achieved from a gallery hole which passes straight through the eccentric shaft and thus ensures that all mains are additionally lubricated by centrifugal head as well as pressure supply due to the speed of rotation of the eccentrics. The main lubrication sump is formed by the bed and no separate sheet metal sump is required. Simple oil filtering arrangements are carried beneath the oil level and for drain purposes a plug is provided at the left hand end of the machine.

All electrical equipment is safely contained on chassis beneath the main motor cover at the rear left hand corner of the machine in an accessible position

All these units so far described form the basic warp knitting machine and are arranged as unit assemblies so that variations of machine construction and width can be readily obtained to match

(Continued on Page 9)



Two-bar 168-inch 28-gauge Superfine showing guides, sinker knockover, sinker strokes and net setting adjustments, warp path and tension bars.



Glen Super Spun is a bulk yarn made by Glen Raven's special process of DU PONT'S ORLON* and results in a superior bulk yarn for fine gauge knitting. It is particularly recommended for sweater manufacturers who want a softer product.

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specific circumstances as well as to provide maximum flexibility for quick service turning of the machine.

This flexibility has been carried into the design of units and frames for supporting the warp beams, tension bars, and let off boxes. For two-bar machines alternative head and tail frames allow minimum practicable lengths of warp sheet for both bars from a 21 inch diameter or a 30 inch diameter pair of warps.

For four-bar machines frames have been designed once again to retain the minimum warp path length while allowing optimum accessibility for assembly threading, and general handling. The capacity of these frames is normally for 14 inch diameter beams, but 16 inch diameter may be accommodated. It is, as an alternative, possible to run a two bar ground from two-inch diameter warp, with small diameter beams for effect threads placed between these.

The six-bar machine retains

the four-bar machine frame as a basis with two additional beam positions carried low down at the rear once again allowing for accessibility to the warp sheet and without extending the yarn path beyond practical limits.

Suitable reeds and deflector bars are so placed as to guide all warp paths into the knitting point with the minimum of interference to good yarn flow, and particular attention has been given to avoiding freezing and cottering on slack feeds at high speeds.

In quality control all six warps are fitted with up-to-date positive let off drives.

The warp let off mechanism is a completely new development of the original FNF three cone

The system has been so designed that a speed gear transmits the revolutions to give constant warp yarn feed at any beam diameter and machine speed. Each beam has a variable speed unit contained as an in-

tegral part of the beam drive, so that any run-in i.e., yarn feed per rack, may be easily selected without gear changes.

The result of this new design is that by turning the two selector screws provided both beam diameter and run-in may be set up on the calibrated dial fitted to each let-off box. No difficulty has been experienced by the company with this powerful double variable speed transmission in covering the following standard range of warp beam conditions, 30 inches diameter down to two and three-quarter inches diameter, 70 mm, and run-in lengths from 150 down to 15 inches. Lower and higher run-in rates can also be achieved.

The yarn control has been simplified while retaining the accurate and practical way of measuring warp run-in speed variation, taking into account the diversity of yarns, twists, softness or hardness of warps, warp diameter and density and finished surfaces.

This technique of a single end of yarn carried around the warp and knitted into the fabric eliminates errors of surface measurement due to roller warp contact, and the limitation of tension variation measurement. The slave yarn is taken from a closed Porspex cylinder provided to protect the yarn package, through a back tension snarl eliminator, around a constant diameter disc mounted directly above the beam diameter index and then through a safety stop motion to the warps

The mechanical let-off differential gear has been coupled with an electrical pick-up so that minute variations in warp feed for rapid measurement and adjustment of the beam rotational speed. As soon as the rotational speed is readjusted, the index datum mechanism comes into operation and makes possible the elimination of carryover error in previous devices. Interrupted let-off attachments are optional.

Knitting Equipment

Terrot Limited Purpose Double Pique Machine

THE Terrot IZ Special multi-feed circular machine has been designed as a high production machine for the manufacture of single- and double-pique for outerwear. The model is equipped with 36 feeds and is available in gauges ranging from 16 needles to 20 needles per inch. By limiting the number of feeds to 36

it has been possible to build into the machine completely closed needle cam tracks which do not require any changing of cams when altering the knitting to interlock, sightlock designs and simple pique.

The machine has a 30 inch diameter cylinder. The completely enclosed needle cam tracks prevent any kind of centrifugal throw of the needles while the machine is running.

Machines destined for export to the United States are equipped with two needle positions—for knitting and idling.

The IZ Special Machine has a rotating dial and cylinder and a fixed yarn package stand. The yarn feed wheel installation ensures that the yarn is supplied to the needles in a positive manner. At the moment new types of feedwheels are tried out on the machine experimentally which will become standard equipment as soon as the pres-

ent trials have proved successful. The yarn feedwheels are driven by means of an infinitely variable PIV drive.

Electrical Motions

The yarn stop motions, and in fact, all other stop motions on the machine are of the electrical variety and operate in conjunction with signal lights in order to enable the operative to locate the source of possible stoppages as quickly as possible.

A number of stop motions operate along the needle line and stop the machine instantaneously in the event of needle load ups, closed latches, broken needles, and so on. The fabric take-up is effected by means of three fabric take down rollers which enable the machine to operate with very accurate fabric take down settings.

The lower part of the machine is protected by means of a solid machinery guard. The latter is equipped with electrical contacts, so that the machine stops at once in the event of a guard plate being removed.

The model is driven by means of an infinitely variable squirrel cage motor so that the machine is able to run at a speed which can suit the particular yarn quality which is being knitted.

Multi-feed machines running at high speeds, are particularly prone to the formation of lint which builds up along the needle line causing faulty knitting. The IZ special machine uses a lint blowing installation which has three blowing points—one rotating blowing point which operates through the dial upon the heads of the needles and two stationary blowing points which are directed upon the dial and cylinder.

Holds Two Packages

The yarn package stand has been designed to accommodate two yarn packages each with a 250 mm diameter per knitting feed. The second package support at each feed is arranged in a moveable manner so that when knitting with one end, the yarn on the second package can

be tied to the knitting package while the machine is running.

The dial is of course gear driven without dogs of any kind.

In addition to the pique structures, the machine can also knit various ripple stitch structures and small fancy tuck stitch designs.

Strandberg Develops Portable Speed Indicator

GREENSBORO, N. C. — A portable rpm and surface speed indicator with a direct current generator has been developed for textile production by Strandberg Engineering Laboratories, Inc.

The indicator, called Speed Check, is said to be accurate by better than plus or minus one-half per cent. The generator permits instant reading to the nearest yard or revolution per minute.

According to the firm, the generator eliminates pulleys and attachments for the hand detector. The sole detector on the device covers all necessary speeds by electrical shiftings of ranges.

DECEMBER 11, 1961

ORLON SAYELLE FOR ALL TYPESOF KNITWEAR

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Swimwear

Knits Undergo New Sophistication At Robby Len-Lee

By ILANA HIRSCH

A THREE-WAY convertible neckline, a scalloped backline with horizontal bands to create interesting cut-out effects and a side drape, surplice bodice maillot and sheath are all examples of new silhouette creativity at the Robby Len-Lee Beachwear Corp. The ingenious convertible neckline on a Helanca-processed nylon mail-

lot can be a square, V- and high bateau simply by buttoning and unbuttoning tabs that shape the desired style.

The surplice neckline suit with side drape exemplifies a dressier, more sophisticated knitted suit. In that this is a significant silhouette, it is interpreted both in knitted and woven fabric in a number of prints and

Another new knit with high syle lines is a maillot with builtup straps ending in cap sleeves and a frame of contrasting color around a wide V-neck and soop back. The white band offsets a number of color offerings including cerise, tangerine, turunoise and black.

White outlines another suit a red and blue checkerboard knit—in the same manner. This number highlights, among the knits, the Americana color theme so prominent with Robby Len and Lee this year.

Another new silhouette in knits is the boy leg found on a suit with a square necked, gaily striped top and solid trunks. Sample colors of the top are cerise, tangerine, green and

turquoise; red, white, blue and yellow, and turquoise, yellow, tangerine and brown.

Three parallel rows of V-tucks on the waistline of a half panel sheath demonstrate how this resource tucks and gathers knitted fabric for new effects.

One of the most unusual prints on knitted fabric is a swirly and irregularly striped abstract leaf. It comes on a square neck and back sheath and a one-shoulder two-piece. An abstract splash print in black on a white ground comes on a cotton knit made more unusual by rows of gradually widening stripes that increase in width as they near the suit's edge. Bouquets of small, multi-color flowers design three-cotton knit suits: a sheath, a maillot and a two-piece.

Surface textured knits include matelasse, popcorn and looped constructions. A modified maillot with camisole neckline is made of the looped terry fabric and is encircled at the center by multi-color stripes in a cummerbund effect. Matelasse knits in-



Interesting cutouts are formed by a scalloped backline marked off with narrow horizontal bands. Little bows are a demure touch.



Two contrasting colors form the deep bib and straps on this surface textured matelasse knit. Sample color combination: brown, orange and white.



One of the highlighted silhouettes at Robby Len-Lee is the surplice draped sheath. Here it is interpreted in a woven elasticized fabric printed in a large floral pattern.

clude a V-neck, square back maillot with a two-color bib detailed with four buttons. One color choice is a brown suit with orange straps and upper half of bib and white, V-shaped lower half.

A raised zig zag bisects the front of a scoop neck and back sheath knitted in a square matelasse and a wide, oval cut-out opens up the back of still a third matelasse construction.

Suits knitted in the popcorn stitch are a one- and two-piece maillot with red, white and blue contour bands forming the bra and a solid color suit with sweetheart neckline and an unusual cutout portion in back.

Aside from the surplice sheath with side draped front, the most promoted silhouettes among in the woven elasticized group are the boy leg with long line seaming, and the low square back sheath with zipper closure.

The featured princess line suit has woven multi-color stripes in a formalized design placed vertically to accentuate the long line except for a wide center panel on which the stripes are diagonal and mitred.

Prints are popular in the woven segment and prominent themes include floral, linear, abstract blocks, stripes, butterflies in pastels, windowpane checks, a sunburst and overprints. Flowers in a South Sea island mood are screen printed on a draped sarong to further this idea. Backs of boys and girls sitting in rows on the beach engaged in animated discussions make one of the most unusual conversational prints.

Leno, the nearly weightless fabric that is opaque when worn but transparent in the hand is a favorite here. A block print, a clever enlargement of the Leno weave itself, is offered in several colors with white.

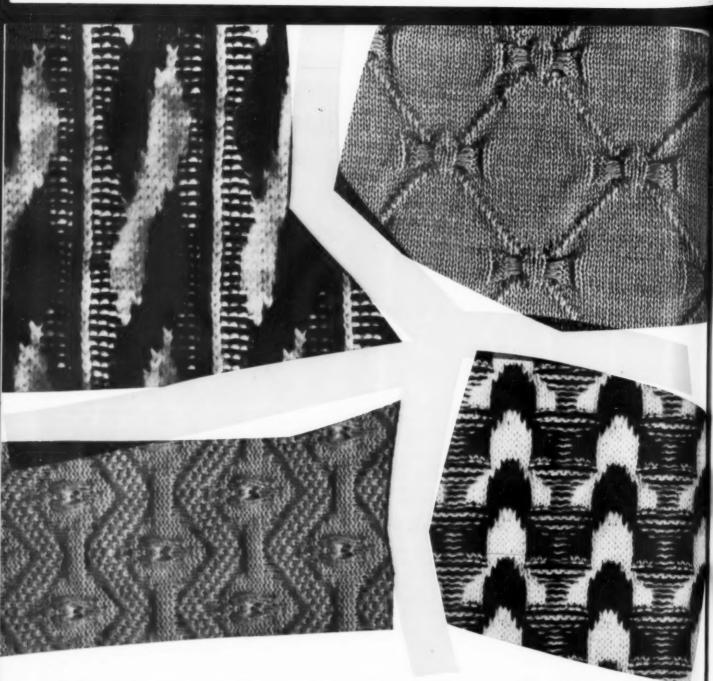
Woven designs are shiny dots against a dull ground, and brocade patterns.

Robby Len and Lee both utilize an interesting print: a tied bow design that comes in several colors on white. When black combines with white it appears almost abstract. Lee uses the print on a halter neckline sheath with the most open of all backs. Fabric the color of the print edges the round backline and extends to form straps that tie around the neck. Lee prints a boy leg with sweetheart neck and wide straps in the bow design.

Unusual details — most of (Continued on Page 12)



By unbuttoning the tabs on this Helanca maillot the neckline can be changed from bateau to "V" to square.



SELECTIVE KNIT • TUCK • WELT • TRANSFER NOW POSSIBLE AT EACH FEED: Wildman Jacquard's new four position selection potential permits each of the six feeds to form stitch combinations that

were previously impossible to obtain in a single feed.

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which are asymmetric are a cummerbund in contrasting fabric on the sides only leaving an unbroken line in front and back. asymmetric draping, a vertical row of rick racking up one side of a gingham check suit, narrow insets of box pleated panels, crossover bodices with actual crossing of fabric or simply suggested by seaming and appliqued cording. Other details include embroidery, Tyrolean lacing up a bodice front, lace trimming and a mandarin skirt which is flat in front, pleated in back and slit on both sides.

Dressier suits are a gold Lurex sheath with low, square back and crossover seaming on the bust and another square back sheath with jet and rhinestone trim along fabric that forms the straps and also frames the round neck and backline.

Cottons make up a significant segment of the collection and include boy legs, princess suits with front and back zippers, sarong drapes printed in batiks and water color florals, several pleated skirts and a boy leg with fly-away panel skirt.

Flat cotton fabric is colored in printed or woven designs and novelty treatments include waffle weaves, piques and puckered fabric. Red, white and blue plaids are especially popular and carry forth the American theme.

Mill News

Carl Jantzen Named Manager Of Division

PORTLAND, Ore. — Carl Jantzen has been promoted to manager of the sweater division of Jantzen, Inc. He has been merchandising manager of the women's swim suit division for the past two years and, before that, manager of the style development department. He is a board member and assistant treasurer of the company and has been active in the firm since 1940—shortly after the death of his father, one of the company's founders.

Mr. Jantzen succeeds Erman Mitts, manager of the sweater division since 1958. Mr. Mitts has been planning an early retirement but will remain for a time to assist Mr. Jantzen.

Merchandising activities which were formerly in Mr. Jantzen's province in the swim suit division are to be taken over by Stanley Stearns.

PORTLAND, Ore.—Jantzen, Inc., has signed a contract with

Sportstimer Manufacturers, Ltd., of Durban, South Africa — licensing the latter company to manufacture and market men's and women's swim suits and play clothes under the Jantzen label in the Union of South Africa.

The Sportstimer plant comprises about 110,000 square feet, including a recently completed addition of 35,000 square feet. It has a working staff of approximately 500.

Abe Dubin, Sportstimer president, made preliminary arrangements for the licensing arrangements in January, 1961, and was a recent visitor here again in that connection.

Jantzen lines are now manufactured by affiliates in 17 foreign countries.

Carlton G. Miller Named Schwab Representative

CUMBERLAND, Md. — S. Schwab Co., manufacturer of infants' and children's knitwear, has named Carlton G. Miller to carry its lines in Philadelphia, northeastern Pennsylvania, northern Delaware and southern New Jersey.

According to Richard and Leonard Schwab, principals of the company, Mr. Miller's appointment was necessitated by a realignment of territories in the Pennsylvania area. Mr. Miller, who has his headquarters at Brookfield and Evans Road in Gwynedd Valley, Pa., will continue to represent the Warrens & Alexis Co., in addition to handling Schwab's Allegheny Knitwear lines.

Along with Mr. Miller, Leo Isaacs and Bruce Clipp covering western and central Pennsylvania, will provide Schwab with an intensified coverage of the state.

The firm produces branded knit goods including sweaters, creepers, crawlers, layette sets, bootees, gloves and swimwear under the Wee Stretchables and Allegheny Knitwear labels.

Seneca Leases Plant Of Defunct Business

SYRACUSE, N. Y. — Seneca Knitting Mills of Seneca Falls, N. Y. has leased one of the plant buildings of Crown Woolen Mills Corp. in Marcellus which ceased operations two months ago after being in business 80 years.

Francis Souhan, executive of (Continued on Page 15)



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Sure, Aldon boasts experience, quality controls, advanced research. But it's Aldon Imagination that catches fashion instantly. No wonder, fashion problems brought to Aldon never go anywhere else.

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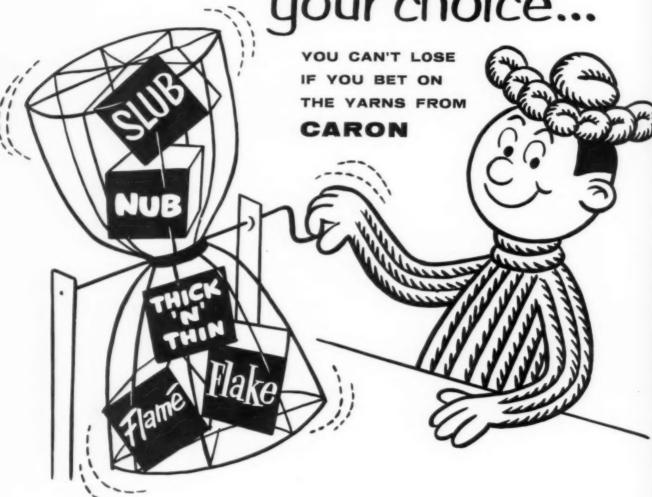


where master spinners create the unusual

The Aldon Spinning Mills Corp.

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C. J. McAlaine Yarns 1501 Westwood Lane Philadelphia 51, Pa. Wood & MacDougall, Inc. P.O. Box 982 Charlotte 1, North Carolina Step right up and take your choice...



No matter what name you call them by, these are the hot new numbers in fashion—and Caron gives them the extras that take the "gamble" away. For instance, we'll vary the diameter and length of the slubs, as well as the distance between them (to avoid "patterning"). We'll supply them in solids, heathers, and marls—or in our own unique multi-color treatment that adds a "magic strand" for an exciting shock of color contrast. And—you can have them in wool, Orlon Sayelle, or any of a wide range of other synthetics, natural fibers, or blends... What more could a style-wise knitter desire?

Spinning company

ROCHELLE, ILLINOIS . ROBESONS

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Seneca superin leased work o there.

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Seneca Knitting Mills, said a superintendent will be in the leased building Dec. 4 to begin work on establishing operations there.

Mr. Souhan said he plans to operate the carding and spinning equipment in the lower plant as business becomes available. The plant's weaving equipment was sold at auction and is being moved out.

Fox River Valley Names Sales Vice President

APPLETON, Wis. — Philip J. Sealy has been appointed vice president in charge of sales for Fox River Valley Knitting Company, manufacturers of woolen hosiery and custom yarns.

He has been in the New York City office for the past four years.

William Carter Company Names Sales Managers

NEEDHAM HEIGHTS, Mass. — The William Carter Company, manufacturers of knit underwear, sleepwear and outerwear, has appointed Donald A. MacKeracher as West Coast division sales manager and James F. MulCahy, Jr., as Chicago division sales manager.

Mr. MacKeracher, whose headquarters will be in San Francisco, replaces R. E. Wood, recently retired after 20 years with the firm. Mr. MacKeracher was Chicago division sales manager.

James F. MulCahy, Jr., joined the company as a trainee in 1948 and became assistant Chicago division sales manager in 1956.

Lillian Goldberg Named Court Stylist, Colorist

Lillian Goldberg has joined Court Knitting Mills as stylist and color specialist for knitted fabrics used in ladies' sportswear, junior dresses and separates, children's wear and men's wear.

Miss Goldberg will work closely with George Kurland, designer-technician for Court and she will also handle publicity and work with designers and stores.

Miss Goldberg was formerly with I. A. Wyrer and Co., Fair-Tex Mills, Glensdor Textile, Carol Stanley, Inc., and Baar and Beards, Inc.

Rosemont To Move Plant This Month

PHILADELPHIA, Pa. — Rosemont Knitting Mills, Inc. will move its plant from 1011 Diamond Street to Hope and Indiana Streets at the end of this month.

The move will take about two weeks, according to Leonard C. Pratt, Jr., president. Rosemont will occupy part of the first floor and the entire second floor at the new location which totals 17,000 square feet.

"We're not gaining space," said Mr. Pratt, "but the new layout will be much better and will improve efficiency." Plans call for four new circular knitting machines, as well as new cutting facilities for laminates.

Rosemont looks to a big increase in the production of men's laminated sweaters.

Mr. Pratt said he believes prospects are excellent.

Sidney Marks Leaves Straus Knitting Mills

Sidney Marks, recently appointed as a sales agent with Straus Knitting Mills, St. Paul, Minn. for New York City has resigned. His new appointment will be made known shortly.

INDUSTRY'S MAIL CHUTE

Editor, KNITTED OUTERWEAR TIMES Dear Sir:

Your article "Trends in the Technology of Sweater Manufacture" in the December 4, 1961 issue on page 9, states under "Cloth Separation" that mechanical separators may be doomed by the meltable fiber technique. However, as the manufacturer of the Stein "Magic" Separator and the Platnick "Multiple" Separator for mechanical separating of threads from circular and flat knits, it seems important for me to assume a defensive position and state what I have learned from manufacturers who have tried or looked into the meltable process and ultimately decided on purchasing my equip-

The following stated faults of the meltable process are:

- 1. A residue remains at the edge of the fabric.
- There is discoloration to some fabrics.

(Conttinued on Page 17)





fallspun's Pride-in-Product is shipped with every cone . . .

Every cone of your order for Fallspun quality yarn is shipped custom-wrapped ... and for good reason. It comes to you from a company with over a half-century's experience . . . proudly produced by skilled craftsmen . . . approved and passed through every step of varn manufacture. Even the wrapping tells you: whatever your needs, Fallspun is your best yarn investment.

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W. J. Miller, Philadelphia, Penn. D. F. Swain Co., Chicago, III. DECEN

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- 3. The melting fiber is ex-
- Many types of expensive equipment are required.
- 5. Fabric is in complete dis-array and the joining threads between strips are difficult to cut if melted during the drying process.

Although it is impossible not to agree that the future will see improvements in the meltable process, our mechanical separators have given to most manufacturers a return on their cost of equipment in only five to 20 weeks according to the work.

This speedy return on investment has induced many manufacturers to take care of the present and leave future developments for the future. We should appreciate your comparative studies and their results.

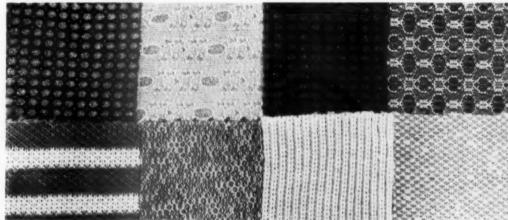
JOSEPH PLATNICK Valley Knitting Machinery

Josephine Pavlik Is New L.A. Correspondent

Josephine Pavlik has been appointed Los Angeles correspondent of the KNITTED OUT-ERWEAR TIMES.

She will cover industry news in Southern California.

Laminated Knits



Reeves' checkerboard of knitted fabrics used with foam include: top row, Raschel meshes and laces that are stitched, not laminated to Curon from the Thermofab Corp. Coordinated foam backed cottons, second row, are offered by Security Mills, Inc. in a number of constructions and colors. Shown are stripe, boucle, solid ribbed and tweed fabrics.

Curon Backs Mesh, Lace And Cotton Coordingtes

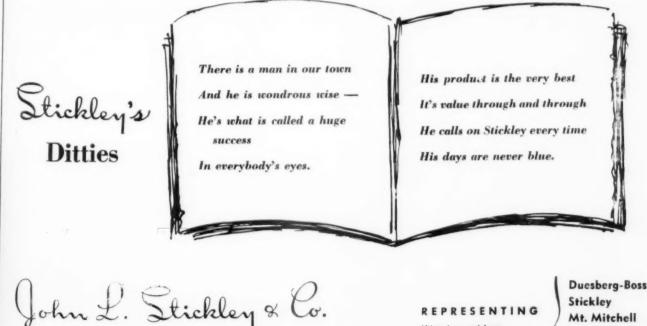
An exciting array of knitted fabrics are being laminated to and used with Curon foam. manufactured and marketed by Reeves Bros., Inc. For the moment omitting standard rib, jersey and boucle fabrics, there remains the new novelties. These are an embossed Antron

nylon knit finished to look like pigskin and nylon mesh and laces knitted on Raschel machines that are stitched-not laminated—to the foam.

All foam manufactured by Reeves is treated with a new finish-called Curon E-Z-that facilitates the sewing of a foambacked fabric, allowing it to slip easily through a sewing machine.

Thermofab Corp. (Division of Harry Ball & Son) manufacturers of laminated fabrics for men's wear is showing the Raschel mesh and lace fabrics that are stitched over the foam to serve as lining. These come in several stitches and colors to match or contrast with the foam. The latter serves to point

(Continued on Page 19)



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DECEMBER 11, 1961

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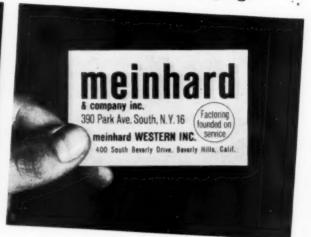
Eliminates payment uncertainty?



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up the delicate textures of the

For the outer shell, Thermofab offers brushed rib constructions in a variety of widths. Eighty per cent acetate blends with either 20 per cent Antron or conventional cross-section nylon. There are also a brushed heather stripe of 85 per cent acetate and 15 per cent nylon and a black gold warp knit of 70 per cent Celaperm and 30 per cent Antron.

Security Mills Inc. is a showing the Antron fabric with a pigskin finish. In addition, this resource is highlighting coordinates in 100 per cent cotton. These consist of a two-tone tweed in a crepe stitch, a two-tone bird's eye with nubs for greater dimension and a mock bird's eye designed in two-color narrow stripes. All of these coordinate with a fine gauge rib in solid colors.

Sample color combinations are beige with light blue, white with light blue and two shades of beige. Also, brown and white and orange and beige.

Security is also laminating a 100 per cent Antron in solid colors and a wool and cotton

relief pattern in thick and thin mono-colored yarn.

Another mill to laminate with Reeves' Curon is Steveco Textiles who is showing a variety of surface textured, rib and jacquard cottons that can all be laminated to order. These staple patterns include Scandinavian designs, stripes, geometrics, checks and florals. Vertical stripes predominate. Important colors for spring '62 are an orange-red, cerise and green.

An interesting rick rack in Orlon is part of Pyramid Fabrics' laminated knits. Pyramid also laminates an all nylon corduroy, an acetate and nylon shantung an acetate and nylon jersey and a jersey Antron.

Reeves' own brushed nylon suede is used by many coat and sportswear manufacturers and comes in several colors. Men's favorites are loden, bronze, walnut, camel, luggage and black. Women prefer caramel, turquoise, black, brick, red and banana for spring.

Printed foam in beautifully colored designs is new at Reeves and is being promoted especially for linings. Use of foam (Continued on Page 21)

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AND OUR OWN "AIREDALE KID",
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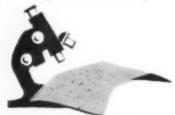
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Trained marketing personnel regularly visit stores throughout the country to acquaint merchandise managers, buyers, and sales personnel with the unique advantages of "Ban-Lon" fabrics and fashions, as well as with information regarding the latest developments.





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supplier ing labo

decorated in this manner precludes the use of a lining material. Cranston prints and finishes the foam.

Printed Curon Foam Introduced By Reeves

Printed foam, which can elimnate linings and be used effecively for novelty trims, has been introduced by Reeves Bros., Inc.

The Curon foams, printed by Cranston Print Works Company, are for men's and boys' unlined outerwear, women's sport jackets and children's coats.

According to Reeves, its foam akes to delicate prints with fineline filigree effects and its offerings include novelty stripes, oriental patterns and batiks on 1/16th inch foam.

"The new Curon prints have been thoroughly tested to meet high quality control standards,' the company announced. "They make possible an entirely new kind of interlining that is machine-washable, defies crocking, fading, flaking and perspira-

ASTM To Assemble **Tests For Laminates**

PHILADELPHIA, Pa.—The urgent need for standard test methods for the new, very warm materials — foam laminates was discussed at the first meeting of the American Society for Testing and Materials task group on foam laminates, at representatives of the foam producers, laminators, adhesive suppliers, fabric producers, testing laboratories, and fibers producers attended.

Foam laminates, which are assemblies of textile outer shell fabric and a foam material, are among the newest textiles on the market today. They are formed by placing adhesives between the shell and foam or by utilizing the technique of heat lamination which consists of fusing the foam on one surface and pressing this surface into contact with the shell fabric.

The task group's immediate objective is to assemble, as rapidly as possible, a set of performance test methods which will aid in the evaluation of current production of the foam laminate industry.

To achieve this, methods for investigation were determined and sub-groups were appointed to study the following areas: dimensional stability to laundering and dry cleaning; appearance, strike through and puckering; bond strength in wet and dry condition; thickness and resiliency; crease resistance; resistance to abrasion; thermal properties; aging characteristics; breaking strength; tear strength and color fastness.

Dr. A. Frank Tesi, Celanese Corporation of America, opened the discussion by pointing out that the vital necessity for standardization has been noted by many people in the laminate industry.

The chairmanship of the task group was accepted by Cameron of secretary.

ASTM headquarters. Eighteen A. Baker, Better Fabrics Testing Bureau, and Mr. J. R. Cunningham, foam division, Scott Paper Company, accepted the position BUTTONS A complete selection of sew-thru and shank buttons in plain and textured polyesters. Also Plastics, acrylics, metals and pearls. Perfect color matching. One day service. Call or write for samples. New York Washable Button Corp. 1170 BROADWAY . NEW YORK 1, N. Y LExington 2-6088

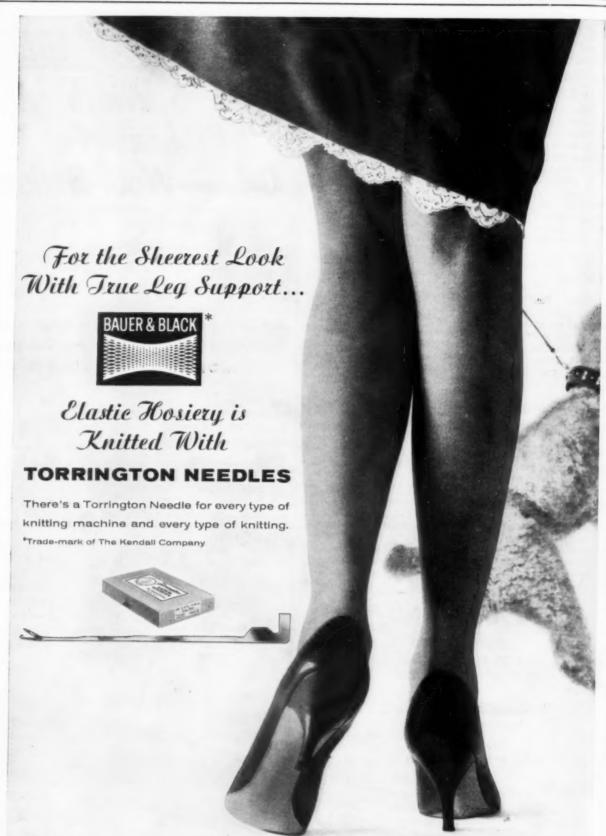
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Trade Education

FIT Holds Open House To munch Knitting Course

The Fashion Institute of Technology is holding Open House tonight from 7 to 8:30 P.M. in room 307 of the college o acquaint industry, alumni, and the public with the new ourses now offered in knitting echnology by the knitting techology department of the diviion of industrial management. A four year evening curricu-

m leading to the Associate in Applied Science degree with pecialization in knitting proiction management, and adninistration and sales for the nitting industry is being ofered for the first time.

The Open House will include panel discussion of college dministrators, industry leaders and college staff.

Trade Associations

Pekoma Backs Drive For Bigger Tax Writeoffs

PHILADELPHIA, Pa.—The knitted outerwear industry in this area is backing the efforts of the National Knitted Outer-

tion to obtain more liberal tax writeoff for knitting machinery, according to Joseph Specker, president of PEKOMA.

PEKOMA has authorized David Levin Co., certified public accountants, to develop a questionnaire on machinery costs and depreciation that will eventually be distributed to some 40 mills in this area.

The survey is expected to serve as ammunition for the national organization. Mr. Levin said information obtained will be confidential and will be disclosed to officials of PEKOMA only by code.

Korzenik To Address Pekoma Annual Meeting

PHILADELPHIA, Pa.—The Pennsylvania District, Knitted Outerwear Manufacturers Association will hold its 42nd annual dinner meeting December 18 at Old Original Bookbinder's.

Sidney Korzenik, executive director and counsel of the National Knitted Outerwear Association will speak on the outlook for 1962.

Election of officers will be held along with a discussion of wear Manufacturers Associa- plans for the coming year.

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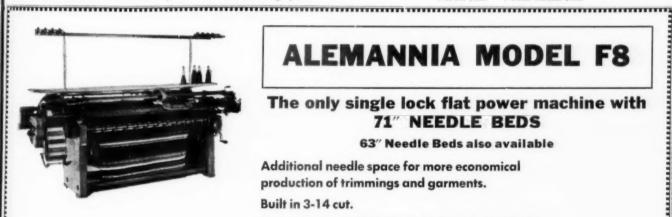
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Philadelphia, Pa.-Beury Bldg.-Room 509-Baldwin 6-4297, 6-4298

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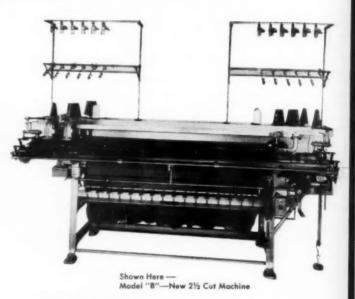
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Trade Associations

Apparel Men Elect Officers For 1962

PHILADELPHIA, Pa.—The Philadelphia Men's Apparel Association elected Maurice W. Gordon, partner in Gordon Bros., local men's and boys' wear specialty shop, president for 1962.

Robert Rothschild, Puritan Sportswear Corp., formerly second vice president was elected first vice-president.

Elected to the board for three years was Joseph R. Donnelly, Cluett, Peabody & Co. Elected for one year was Albert Ed Goodman, Barkley Knitwear, Inc.

Abe H. Liebster, president of M & M Knitting Mills, here, addressed the audience of approximately 145 on his recent 8-week tour around the world taken with Morris Soowal, president of Soowal Knitting Mills, Inc.

Re-Elect Stanley Bluver As Boys' Guild President

PHILADELPHIA, Pa. — Stanley Bluver, Robert Bruce Inc., was nominated for another term as president of the Philadelphia Boys' Apparel Guild at a recent meeting.

Trade Statistics

Men's Sweater Shipment Rises In October

WASHINGTON, D. C.—Average weekly shipments of men's sweaters in October rose sharply over the preceding month and over the corresponding month last year, the Bureau of Census reported last week.

During October 1961 men's sweater mills shipped on an average weekly basis 99,000 dozen sweaters. This represents an increase of an excess of 41 per cent over shipments in September, 1961 and a 30 per cent increase as compared with shipments in October 1960.

Financial

285,000 Warshow Shares Offered For \$14

Lee Higginson Corporation, P. W. Brooks & Co. Incorporated, and associates have offered 285,000 shares of H. War-

(Continued on Page 27)





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Here — for the first time — in permanent Textbook form — are the specialized writings of some of the industry's outstanding technical experts.

From the Preface by SIDNEY S. KORZENIK Exec. Dir. & Counsel, Nat'l Knitted Outerwear Assn.

"... double knit fabrics have caught the public fancy in a striking way. After three years, far from showing any signs of losing its appeal, it is stronger than ever. The same trend is no less true of Europe than of the United States."

"A guide to the new technology of double knit fabric production is not only necessary for so many who newly found themselves in this branch of knitting, but the stimulation of technical competence should also provide a basis for developing its untapped possibilities and thereby safeguarding its future."

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Part V—Swiss and French Double Knit Machines Chapter 13-Dubied's Wevenit A.24 Chapter 14—Labocey Double Knit Machines
Part VI—Yarns. Dyeing and Finishing
Chapter 15—Knitting Yarns for Double Knit Fabrics Chapter 16—Dyeing of Double Knits Chapter 17—Finishing of Double Knit Fabrics 1-How to Buy Double Knit Equipment

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Appendix II—Facts About Double Knit Machinery Appendix III—Glossary of Knitting Yarn and Dyeing Terms Our "Double Knit Fabric Manual" provides the complete and authoritative answers to such questions as:

- "What is double knit cloth and how does it differ from single needle jersey fabric?"
- "Is there more than one type of double knit fabric, and, if so, what are the different varieties?"
- "What is there in the inherent construction of double knit fabric that makes it so desirable as a woman's dress and suiting fabric?"
- "How many different types of machines are available to produce double knit fabric?"
- "What are the advantages and/or limitations of one type of machine as against another?"
- √ "Which knitting machinery companies build double knit equipment?"
- "How can a knitter assess one machine as against another? What are the factors he should analyze before deciding to buy a specific type of machine?"
- √ "What are the fibers used in the manufacture of double knit fabrics? How important are the natural fibers . . . the synthetics?"
- √ "What counts of yarns are suitable for an 18 cut double knit machine?"
- "Are all yarns for double knits package dyed? Can double knit fabrics be piece dyed?"
- √ "How should double knit fabrics be finished? Is calendering important? What type of hand does semi-decating produce?"

Also available . . . "PRINCIPLES OF KNITTING OUTERWEAR FABRICS AND GARMENTS"

A Practical manual — for factory use — summarizing the major elements contributing to knitting stitch diversity, a review of machines commonly in use in the United States, together with an exposition of their distinguishing principles of operation.

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show & Sons, Inc., Class A stock at \$14 each.

All of this offering of stock in the New York City-based manufacturer of woven and knitted elastic fabrics is being sold by shareholders.

H. Warshow & Sons, Inc., successor to a sole proprietorship founded in 1911 by Henry Warshow, Sr., has, since 1946, concentrated on providing fabrics at wholesale for manufacture of girdles, brassieres and swim suits. The company believes it is one of the six largest manufacturers of wide elastic fabrics in the U. S.

Net sales in the year ended July 1 were \$11,702,240 compared with \$11,343,920 in the year ended July 2, 1960. Net income in the 1961 year was \$744,834, equal to \$41/2 cents a capital share, compared with \$597,242, or 68 cents.

Yarn Suppliers

Highland Cotton Mills Elects Top Officers

HIGH POINT, N. C.—Highland Cotton Mills has elected Nathan M. Ayers as chairman of the board and treasurer, and H. Frank Hunsucker, Jr., as president.

Mr. Ayers was previously executive vice president in charge of sales, and treasurer, and succeeds the late H. F. Hunsucker who was a co-founder of the company with the late J. E. Millis and J. H. Adams.

Mr. Hunsucker, Jr., formerly executive vice president in charge of manufacturing and assistant treasurer, succeeds Mr. Millis in the presidency.

The new officials will manage both Highland Mills and its subsidiary, Cloverdale Dye Works, which was merged with the parent organization in the mid '50s.

Sol Britman Joins Beck-Kleiman Staff

Sol Britman has joined the sales staff of Beck-Kleiman Corp. For the past nine years he was with Sidney Blumenthal & Company and before that with Barney Milman.

Beck-Kleiman is sales agent for Oscar Heineman Corp., Camden Yarns, American Thread Company, and other mills producing worsted and high bulk Orlon yarns for the knitted outerwear trade. Spunize Sues Firm For Patent Infringement

BALTIMORE, Md.—Spunize Company of America, Inc., has filed suit in the Federal District Court against Textured Yarn Company, Inc., manufacturer of Tycora crimped continuous filament yarn, charging infringement of its patent for an invention in synthetic continuous filament yarn in a continuous filament yarn state.

Spunize asked the court for an injunction against the alleged infringement plus damages and costs.

Theodore Wolf Joins Collins & Aikman Staff

A direct sales arrangement for New York City has been made by the yarn division of Collins & Aikman, with sales agent Kramer & Wolf, Inc. The agents had represented Collins & Aikman for a year and a half.

Theodore Wolf, formerly of Kramer & Wolf, Inc., has joined the sales staff of Collins & Aikman. He will work at the company offices, 210 Madison Ave.

Obituary

Nathan Goldstein, Head Of Sweater Companies

Nathan Goldstein, owner of Gay Knitwear and Marilyn Knitwear, manufacturer of ladies' sweaters, died suddenly of a heart attack on December 2. He was 66. Mr. Goldstein is survived by his wife Mary, three daughters: Bernice, Roselyn and Geraldine, and two sons: Lawrence and John. Lawrence Goldstein is the owner of Hope Knitwear.

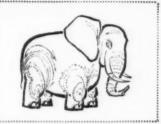
Factoring

Talcott Appoints Two As Assistant Secretaries

Walter T. Ott and Daniel E. Grow have been elected assistant secretaries of James Talcott, Inc. Mr. Ott is credit manager of the industrial time sales division and Mr. Grow is sales manager.

Mr. Ott was credit manager for Credit America Corporation when it was acquired by Talcott in 1958.

Mr. Grow joined Talcott in early 1959 after more than five years as a C.I.T. Financial Corporation field representative for eastern Pennsylvania, southern New Jersey and Delaware.



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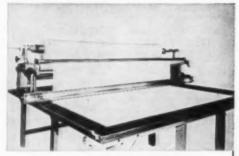
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Lays out fabrics for cutting without stretch or tension. Automatically slits cloth across width quickly, accurately, wherever necessary. With or without turntable attachment. One man operation. Available from 54" to 120" wide.

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Manufacturers of CRA Electric and Hand Cloth Spreaders for Woven and Tubular Knit Fabrics, CRA Metal Sectional Cutting Tables: CRA Automatic Thread Trimmers, CRA Cloth Measuring and Inspecting Machines.

State Tax Reform

(Continued from Page 1)

On the basis of a survey conducted by Mr. Korzenik in the apparel industry, results from a representative group of 300 firms indicated that the average apparel producer in the group surveyed did \$2.2 million of sales annually with 1143 accounts, and these customers were located in most instances in more than 40 states of the Union. These were considerably larger than the typical apparel producer but the distribution pattern, he said, was characteristic of all.

Preparing Returns Onerous

Mr. Korzenik demonstrated that according to government figures the average profit in the apparel industry was 1.4 per cent on net sales in 1960 so that for the average company in the sample study the total profit for that year was less than \$30,000. If, he said, it cost no more than \$300 for legal advice and accounting services in the preparation of a tax return in each of,

say, 35 states, the burden of merely preparing returns would be grossly unjust and intolerable in proportion to the profits taxed, to say nothing of the state taxes themselves.

Mr. Korzenik also presented a supplementary statement specifically on the knitted outer. wear industry demonstrating in the same manner the small business character of the industry and indicating the same conclu-

NKOA's Manual Covers Double Knits

(Continued from Page 1)

one dial. Ordinary ribs, single piques, double piques, bour-relets, Weveknits, are all part of a lengthy list under the rubric of double jersey or double knits. Public interest, therefore, has not exhausted itself in a single specific type.

Among the subjects covered include a discussion of the structures and features of double knit fabrics as compared to single needle yardgoods; the various types of American.

(Continued on Next Page)

CROSS

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British, German, Swiss, French machines on the market for the manufacture of double knit fabrics; methods of dyeing and finishing yarns and fabrics; and yarn selection. In addition, the book contains an appendix of the various types of machine models built by the various manufacturers; a discussion of the factors to consider in purchasing double knit machinery; and a brief glossary of knitting, yarn and dyeing terms.

The book is priced at \$7.50 per copy to non-members of the Association.

Dyeing & Finishing

New Drimarene Orange Announced By Sandoz

Drimarene Orange Z-2GL p.a.f. has been added by Sandoz, lnc., to its line of fiber reactive dues.

Brighter and yellower than Drimarene Orange Z-G p.a.f., the new dye reportedly shows an improvement in fastness to light. Resin finishing causes only a slight shade change and has little effect on light fastness.

Drimarene Orange Z-2GL p.a.f. is recommended by Sandoz for print and pad applications. Stability of the print paste is said to be excellent. For dyeing, it may be applied by the pad-steam, pad-batch, pad-roll, and pad-thermofix methods. Removal of unfixed dyestuff is easily accomplished and owing to low substantivity, wet fastness of the dyed or printed color is excellent, according to the company.

Hellwig Dye Machinery Auctioned For \$99,400

PHILADELPHIA, Pa.—Machinery and equipment of the defunct Hellwig Dyeing Corp. brought \$99,400 in a public auction conducted by Samuel T. Freeman & Co., auctioneers.

Personals

Son Born To Goldmans; Father Heads Knitcapers

A son, Martin Jay, was born November 29 to Mr. and Mrs. Sam Goldman. Mr. Goldman is the head of Knitcapers, Inc., Jamaica. L. I.

The infant weighed eight pounds, six ounces.

CALL FOR TOP PRICES ON WOMEN'S AND GIRLS' SWEATERS KNIT SUITS BATHING SUITS POLO SHIRTS SUNRISE WE'RE ALWAYS OPEN TO BUY WE ALWAYS BUY FAIR! SUNRISE Knitwcar Co., 1384 Broadway, New York 18 • LA 4-9020

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1-36", Grosser 8 cut, 4 bar

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2-5 point Sotco loopers with trimmers

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Controls for body strips included.

6-4 color stripers—24 end upper stop motion
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Machine can be seen in operation on production.

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1-Philip, 15 cut, 30", 32 feed

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1-Jacquard LHB, 4 cut

7-Jacquard TA, 5 & 12 cut

3-Jacquard LH, 30", 8 cut

3-Jacquard TJ, 28", 8 cut

1—Jacquard TA-12, 30", 11 cut

2-Jacquard TAI, 16 and 161/2 cut

1-Jacquard TAI, 131/4 cut, stripers

10-Lamb, Dubied, Grosser machines, 5-14 cut

5-Brinton revolving take-up, 24", 18 cut, 64 feed

1-Scott & Williams MFRC, 30", 141/2 cut

1-Queens, 12 cut, 60", Model B

1-Universal Supramat, 63", 4 cut

5-14 point Sotco "P" loopers

2—Universal 6 spindle backwinder

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FULL-FASHIONED MACHINES WANTED

1 or 2, 21 gauge full-fashioned machines wanted. State full particulars, make and asking price.

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30", 8 cut, LH machines. Good condition only.

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Complete wash plant with 4 dryers, almost new. 2—LH, 7 cut, 30", set on Jacquard.
1—Queens Double Head, 8 cut border machine.

BOX 500Y

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fusing urethane foam with knitted or woven fabrics, practically brand new, 80" wide.

FOR SALE

May be bought singly or with completely equipped plant, owners willing to sacrifice because of personal reasons.

BOX 510R

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See the New Mestre Glat Machine

- 1-Supreme BRW, 4 cut, 30", 16 feed
- 3-Phila. Jacq. LH Machs., 6 & 7 Cut, 30", 6 Feed
- 2-Phila. Jacq. TJ, 16" 7 & 8 Cut, 4 Feed, 4 Color Stripers
- 2-Phila. Jacq. TJ, 28", 7 & 8 Cut, 4 Color Stripers
- 5-Phila. Jacq. TAI Machs., 10, 13, 131/2, 14, 161/2 Cut, 30", 12 Feed
- 1-Phila. Jacq. TAI Mach., 6 cut, 30", 12 feed
- 4-Phila. Jacq. TA Machs., 10, 11, 12, 13 Cut, 30", 12 Feed
- 2-06, model OTA, 7 & 131/2 cut, 30", 12 feed
- 2-Wildman PB2 Machs., 17", 18", 8 Cut
- 1-Lamb Border Mach., Double Head, 6 Cut
- 2-Universal Supermats 63", 10 & 12 cut
- 2-Stafford & Helt machs., 30", 32", 6 & 7 Cut, 6 & 12 Feed
- 1-Backwinder, 6 spindles
- 1-Universal Rotoconer, 20 Spindles
- 3—Steam tables, asserted sizes

Joseph Kopelowitz, Inc.

APPRAISALS - LIQUIDATIONS - FINANCING

54-46 Flushing Ave., Maspeth 78, N.Y. HYacinth 7-4262

WANTED

6 cut cylinders and dials for 14", 15", 16" and 17" TA machines.

BOX 510E

INTERESTED IN PURCHASING

a small full fashion mill or group of machines.

BOX 513

WANTED TO BUY

1-9 cut, 30" Jacquard LH, in good condition.

BOX 510F

FOR SALE

4—Tricoma flat machines, practically new.

Also, a complete finishing plant for sweaters.

WIndsor 4-3035 (in N. J.)

FOR SALE

2 Tricoma machines, 7 gauge, 73", 8 months old.

BOX 510N

MACHINERY WANTED

8 or 9 cut CAL or Queens Tandem or Robaczynski Links and Links machines. For fine gauge kiddie sweaters. State price, serial number and size.

BOX 510H

WASHING EQUIPMENT — priced to sell

- 1—Huebsch 50 pd. Stainless steel washer
- 1—Glover 25 pd. Stainless steel washer
- 1-American 28" motor driven extractor
- 1—Huebsch 40 pd. Steam heated tumbler, ALL A-1

Also sell full line boilers, water heaters, processing equipment.
Installation and service, estimates cheerfully . . . Write or phone
CHARLIE FEILER

Ridgefield Park, N. J.

HUbbard 7-4481

HELP WA

FOR SALE

Specially built Wildman Jacquard MLW, fully automatic 28 inch 960 needles. These machines can be run on 24 feeds with wheels on yard goods, 22 feeds and 2 feeds for separation with wheels on interlock strips with 1 x 1 tail, or 12 feeds on Jacquards; equipped with 12 four color stripers and 72 end stop-motions. Both machines are set up on Jacquard and can be seen in operation.

CLOVER KNITTING MILLS, INC. M Street and Eric Avenue, Phila. 24, Penna.

CONTRACT WORK, CONTRACTORS WANTED

CONTRACTORS WANTED

Prominent manufacturer of MEN'S SWEATERS now planning for Fall 1962 seeks reputable contractors capable of making a quality product.

BOX 500CC

CONTRACT WORK WANTED

on Philip 17 and 14 cut interlock machines. Ladies' Ban-lon or Orlon classic sweaters. 1,000 dozen weekly production. Excellent workmanship. For January, February, March with reasonably priced labor.

BOX 500B

CONTRACT WORK WANTED

on LH 8 cut Jacquard machine.

EVergreen 7-7434

ULTRA MODERN SOUTHERN CONTRACT KNITTING MILL DESIRES CONTRACT KNITTING

3 cut through 16 Cut

YARD GOODS — SWEATER BLANKS — GERMAN DOUBLE KNITS PR FABRICS — RIBS — BORDERS — TRIMMINGS

BOX 510V

WANTED

Continuous knitting on double knit 30" cylinder, 16 cut.

BOX 510

HELP WANTED

SHIPPING HEAD WANTED KNITTED FABRICS

Thoroughly experienced. Textiles only. Must be capable of handling department. Starting time 7:00 AM. Good salary plus overtime. Unusual opportunity.

BOX 512

EXPERIENCED KNITTER MECHANIC WANTED

on Supreme and double knit machines.

Exceptional opportunity.

BOX 510J

TEXTILE PRODUCTION MANAGER WANTED

Knitted and Woven Elasticized Fabrics
Knowledge of purchasing, converting and
coordinating production between New York
office and plants. Directly responsible to president.
Excellent opportunity. Send resume to:

BOX 515

EXCELLENT OPPORTUNITY FOR AMBITIOUS PERSON

Knitting machine concern—in metropolitan area—seeks a conscientious man with a good business sense to assume expanding responsibilities (office procedures, correspondence and follow up contacts). Technical experience not essential. A bright future awaits right person.

BOX 500F

YARN MAN WANTED

Large Philadelphia sweater mill has opening for person with considerable experience in controlling large yarn department. Must have extensive knowledge of all types of yarn. Permanent position. Fringe benefits.

Must give complete details in first letter.

Replies in confidence.

BOX 510S

INDUSTRIAL ENGINEER WANTED

Young man with engineering degree who can do time studies for old, established knitting mill in Philadelphia area.

Permanent position. Give background, salary desired and references in first letter.

BOX 510T

SALESMAN WANTED

to sell knitted fabrics. Must be experienced in the double knit field.

BOX 490C

WANTED

Ladies' sweater designer. Experienced in all phases of styling and execution thereof. Free lance or permanent basis. All replies held in strictest confidence.

BOX 514

IUSINESS (

SERVICES,

60 Clo

Dep

CYANAMID

New and expanding markets for CRESLAN®, American Cyanamid's acrylic fiber, offer unusual growth and advancement to men who can qualify for the following:

TECHNICAL SERVICE REPRESENTATIVE

(Knit Goods Manufacturing)

Challenging opportunity for a man with at least 5 years of actual machine knitting practice. Must know intricacles of circular and flat knitters and all common knitting principles including Ruschel and Tricet.

Will render technical assistance to our customers at their Plants in all aspects of knitting and knit goods finishing.

SENIOR SALES REPRESENTATIVE

(New York District)

You can help us develop our expanding markets if you have 5 to 10 years experience in FIBER sales, yarn sales, or experience selling to the knit goods trade.

Applicants should be familiar with $\underline{\text{knitting goods manufacture}}$ and technology.

Position involves the servicing of customer accounts, coordination of technical service work, participation in merchandising projects, and assisting with market surveys.

We invite you to investigate the potential with us by submitting a detailed resume of your education, experience and salary requirements to:

Peter Fornal

Personnel Relations Manager

AMERICAN CYANAMID COMPANY
111 West 40th St. New York 18, N. Y.

Experienced Knitted Fabric Salesmen Wanted (Two):

for dress and sportswear and for men's and boyswear.

Salary or draw against commissions.

BOX 511

WANTED SEWING AND FINISHING SUPERVISOR

Men's and boys' sweaters
Location — 300 miles from New York City.
City — Country environment.
Give employment history in first letter.
All replies held confidential.

BOX 510D

POSITIONS WANTED

EXPERT MECHANIC AVAILABLE

on LH, circular Links, OG, TAI, TA and all Philadelphia Jacquard machines.

BOX 510K

HEAD SHIPPING CLERK

seeks employment with men's or ladies' sweater firm. Thorough experience, chain and department stores and jobbers. Complete charge, supervise help. Presently employed. Seeks change.

BOX 510M

QUALITY CONTROL, SUPERVISOR AVAILABLE

Thoroughly experienced, all phases, men's and ladies' sweaters, suits and swimwear. Good background with best houses. Will relocate.

BOX 510P

LIAISON MAN AVAILABLE

Free lance. Men's, ladies' knitwear expert for jobber to mills. Production coordination, quality control and styling.

BOX 500N

ASSISTANT MECHANIC AVAILABLE

Formerly with one of the largest houses in the knitting industry.

Knows design for pattern wheels.

BOX 519

CUTTING ROOM SUPERVISOR AVAILABLE

on sweaters (men's, boys' and juveniles') — willing to relocate. 25 years' experience. Please reply to:

BOX 516

DESIGNER-PRODUCTION MAN AVAILABLE

Mens', ladies' and children's cut and sewn sweaters. Production planning, quality control from knitting to box. Able pattern maker. Willing to relocate.

BOX 518

0):

PRODUCTION COORDINATOR

Fully experienced in all phases of knitwear including factory production, styling, quality control, working with contractors, purchasing yarns, etc. Available for position requiring full responsibility.

BOX 510X

WANTED

Qualified knitter-mechanic to buy out retiring partner. Fine potential for right man. New Jersey circular mill, 15 minutes from midtown New York.

BOX 510B

IUSINESS OPPORTUNITIES

INVESTOR'S OPPORTUNITY

- Prominent Canadian knitting mill, with national Canadian wide distribution to the better men's furnishing retail trade, willing to merge with a reputable American knitting mill catering to the men's outerwear fields.
- Present associate, because of retirement age, willing to sell his interest, or both principals will sell outright.
- Preference given to experienced knitter-mechanic.
 All replies strictly confidential.

Give full particulars in first letter. Excellent opportunity for right man.

BOX 500G

SERVICES, SUPPLIES FOR SALE

SAM STARK specializing in CREATIVE JACQUARD DESIGNS

60 Clarkson Ave., Brooklyn 26, N. Y. IN 9-8554 Aft. 3 P.M.

MODERN YARN WINDING CO.

has moved to new and larger quarters at

269 MESEROLE STREET BROOKLYN 6, N. Y. EMPIRE 6-3465

Call us for quality winding of wool yarns

Morris and Jack Greenberg

PRODUCTION AIDS FOR ALL TYPES OF SEWING MACHINES

Carbide Knives
Rubber Surfaced Feed Dogs
(eliminates Feed Dog fabric markings)
Teflon Feet and Plates
Carbide Sewing machine Hooks

RUFWEL ENGINEERING SALES CO.

Dept. K, 455 Rogers Avenue Brooklyn 25, N.Y. INgersoll 9-1666 YARNS WANTED, FOR SALE

FOR SALE

All Sizes and Colors

BDFORD YARN CO.
79 Clifton Place
Brooklyn, N. Y.
MAin 2-1340

WANTED FOR CASH Worsted · Zephyrs · Synthetics · Cotton

We always carry a large stock of yerns, dyed on

CALL EV 8-8277 BEN BALIF

686 Flushing Ave. Brooklyn 6, N. Y. CENTURY YARN CO.

WILSON YARN CORP.

141 Wilson Ave., Brooklyn 37, N. Y. GL 6-9686
WE PAY
TOP PRICES
FOR
SURPLUS YARN
WE BUY & SEII
WORSTED & SYNTHETIC
YARNS

H. BERMAN
We carry in steck
all celors and
all sizes for the
knitting trade!

METALLIC YARN WANTED

1/64 unsupported metalized Mylar only. Kindly enclose small reeling.

BOX 510A

WE BUY AND SELL

Worsteds - Synthetics - Blends

AT BEST PRICES!

BEDFORD YARN CO.
79 Clifton Place
Brooklyn, N. Y.
MAin 2-1340

CLOSE-OUTS WANTED

CLOSE-OUTS WANTED

CASH PAID for surplus stocks of Sweaters and Bathing Suits

BERNETTE TEXTILE COMPANY

101 W. 31 St., New York City

BRyant 9-5526-7

KNIT FABRICS CLOSE-OUTS WANTED

Top prices for solids, stripes and fancies.

S. LEVINE AND SONS

639 N. 2nd St., Allentown, Pa., HEmlock 5-3578

REPRESENTATIVES, LINES WANTED

YARN SALESMAN SEEKS REPRESENTATION

Experienced, aggressive, mature. Familiar with Twisted and Spun yarn, in all fibres, natural and synthetic.

BOX 510L

KNITTED OUTERWEAR TIMES

386 Park Ave. South, New York 16, N. Y.

Please enter our subscription to the Knitted Outerwear Times for one year. Check is enclosed. Domestic — \$10.00 per year; Canada-Foreign — \$15.00 per year.

Name

Address

DECEMBER 11, 1961

HELP WANTED

KNTTER-MECHANIC WANTED

Experienced only on Universal flat machines.

Willing to relocate.

Year-round position.

Excellent salary.

CAPITOL KNITTING MILLS OF PHILA.

Westmoreland & Collins Sts., Phila., Pa.
GArfield 3-0376

WHEN YOU -WANT TO BUY, SELL OR EXCHANGE

Yarns, Knitting Machinery Mill Equipment, Supplies

-NEED CONTRACTORS?

-WANT A JOB OR NEED ADDITIONAL HELP?

—YOU'LL GET BEST RESULTS AND FAST ACTION

BY ADVERTISING IN THIS "MARKET PLACE" SECTION

TRADE WANTS

RATES: one insertion—40 cents per word. Words set completely in capitals

—45 cents per word. Box numbers count as two words. Minimum cast of
odvertisement—56.00, Minimum cost of Positions Wanted advertisement

— 55.00. Trade Wants for Monday's paper must be in by preceding Wednesday. 2 P.M. Please enclose payment with your order.

FOR SALE—Philip interlock machine, 18 cut, 30". Box 510Y.

CONTRACT WORK WANTED for all type interlock knit goods; ladies', childrens' and men's shirts. Box 501BB

CONTRACT WORK WANTED on Jersey transfer machines and Philip machines. Ban-lon or Orlon interlock. Box 490J CONTRACTOR seeks addition work on Ban-lon, 20 cut, Philip machine. Box 510Z

SEEKS ADDITIONAL WORK on cable stitch, 7 cut, Links and Links flat machine. Box 510AA

FINISHING WANTED on all types of knit goods, men's, ladies' and childrens' garments. Call Evergreen 7-6707.

To Place Your"MARKET PLACE AD" Call Murray Hill 3-7520 or

C-II W W:II 9 7:	200
Call Murray Hill 3-75	20 or
Use This Handy Order	Blank
KNITTED OUTERWEAR TIMES 386 Park Avenue South, New York 16, N. Y.	
Gentlemen:	
Insert the ad written below in(Check one)	issues.

☐ TRADE WANTS
Rates per insertion 40c per word; 45c if set in capitals. Box number counts as 2 words. Minimum cost per adv.—\$6.00.

Minimum cost per Positions Wanted adv.—
\$5.00.

Please Enclose Payment With Order. ADVERTISEMENT

 Check here if you want a confidential box no to you as we receive them). 	umber (replies sent
Name	

(Use separate sheet if necessary. Attach this order blank.)

hilip m ORK or and Links

all types dies' and Vergreen

EDITORIAL OUTLINE

- Outlook for Fall 1962 Primary Lines
- · Review of New Knit Goods Offerings
- . Sketches of New Styles to be Seen in Selling **Agents' Showrooms**
- . Interviews with Leading Wholesalers Across the Country on Style, Color Trends
- · Series of Primers Breaking Down New Offerings Into Their Component Elements:
 - A. Knit constructions
 - B. Collar treatments
 - C. Closures button, zipper
 - D. Garment types pullovers, cardigans
 - E. Other treatments

ONE OF OUR MOST IMPORTANT SPECIAL ISSUES

"FALL KNITWEAR & KNITTED FABRIC **REVIEW**"

JANUARY 29 TH

If you sell knit goods to wholesalers . . . or knitted fabrics to manufacturers . . . be represented in this timely special issue!

Coinciding with the 15th Annual Fall Market Week of the Knitwear Mill Representatives Association-to be held from January 28th to February 1st, at the New York Trade Building — our special issue will give dominant attention to a review of major Fall knit goods offerings available to the primary knit goods market.

Our special issue, too, will point up the continued importance of the mill representative in the industry's scheme of wholesale distribution. To be stressed, too, will be the need for early ordering by large wholesale, chain and mail order entities.

As an important bonus, 2,000 extra copies of our special issue will be distributed at the KMRA Show and by mail-to assure the largest wholesaler-reader audience in the history of the "Times."

Meet and motivate the knit goods wholesalers of America by arranging for your ad now.

Call, write or wire for full details

Deadline for space reservations — January 15th Deadline for copy and/or plates - January 19th

Knitted Outerwear Times

386 PARK AVENUE SOUTH . NEW YORK 16, N. Y. MURRAY HILL 3.7520

BANNER is the leader in Package Dyeing ORLON® SAYELLE®

Naturally, BANNER — famed for its research and development efforts — pioneered in the successful processing of Orlon Sayelle for knitted outerwear — and is now the acknowledged leader.

You are assured of a superior product — from the standpoint of loft, resiliency and uniformity of color.

progress is our greatest asset!

GREAT NAMES IN KNITTED OUTERWEAR PROCESSING

BANNER YARN DYEING CORPORATION BANNERIZED CORP. OF AMERICA BANNERLON PROCESSING CORPORATION BANNER PIECE DYEING CO. INC.

488 Morgan Ave., Brooklyn 22, N. Y. • EVergreen 8-0100

